Figure 1A

ATGTCGAAAA TTGAACTAAA ACAACTATCT TTTGCCTATG ATAATCAAGA AGTATTGCTT 60

TTTGATCAGG CAAATATCAC GATGGATACC AATTGGAAAT TAGGATTGAT TGGCCGCAAT 120

GGCCGTGGGA AAACAACCTT ATTAAGATTG TTACAAAAAC AGTTGGATTA CCAAGGAGAG 180

ATTCTTCATC AAGTCGATTT CGTCTATTTT CCACAAACAG TTGCAGAAGA ACAACAGCTC 240

ACTTATTATG TCTTACAAGA GGTGACTTCT TTTGAACAGT GGGAATTAGA ACGAGAATTA 300

ACGCTTTTAA ACGTTGATCC TGAAGTTTTA TGGCGGCCCT TTTCTTCTTT ATCAGGCGGC 360

GAAAAGACGA AAGTTTTATT AGGTCTTCTT TTTATTGAAG AAAATGCCTT TCCTTTAATT 420

GACGAGCCAA CAAATCATTT AGATCTAGCT GGCAGACAAC AAGTGGCTGA ATATTTGAAG 480

AAAAAGAAAC ACGGGTTTAT TTTAGTCAGC CACGATCGGG CATTTGTTGA TGAAGTGGTT 540

GATCATATTT TGGCGATTGA AAAAAGTCAA TTGACGCTGT ATCAAGGGAA TTTTTCTATT 600

TATGAAGAGC AAAAAAAATT AAGAGATGCT TTTGAACTAG CAGAAAATGA AAAAATCAAA 660

AAAGAAGTCA ATCGCTTGAA AGAAACCGCT CGTAAAAAAG CGGAATGGTC GATGAACCGT 720

GAAGGTGATA AGTACGGCAA CGCTAAGGAA AAAGGGAGCG GGGCGATTTT TGATACAGGA 780

GCCATTGGTG CCCGGGCAGC GCGCGTAATG AAGCGCTCGA AACACATTCA ACAACGCGCC 840

GAAACACAAT TAGCAGAAAA AGAAAAACTA TTAAAAGATC TTGAGTATAT TGATCCTTTG 900

TCAATGGATT ATCAGCCAAC GCATCACAAA ACATTATTGA CGGTGGAAGA GCTTCGTCTA 960

Figure 1B

GGCTACGAGA AAAATTGGCT ATTTGCGCCA CTTTCTTTTT CAATAAACGC GGGAGAAATT 1020

GTTGGAATAA CAGGGAAAAA TGGCTCAGGA AAATCGAGCT TAATTCAGTA TTTATTGGAT 1080

AATTTTTCTG GGGATTCAGA AGGCGAAGCC ACTTTGGCTC ACCAATTAAC CATTTCTTAT 1140

GTGCGCCAAG ATTATGAAGA CAATCAAGGA ACTTTATCCG AATTTGCAGA GAAAAATCAG 1200

TTAGATTACA CTCAATTTTT AAATAACTTA CGAAAACTTG GGATGGAGCG CGCCGTTTTC 1260

ACTAATCGAA TTGAACAAAT GAGTATGGGG CAACGGAAAA AAGTCGAAGT AGCCAAATCA 1320

TTGTCTCAAT CAGCTGAACT TTATATTTGG GATGAACCCC TTAATTACTT GGATGTATTT 1380

AATCATCAAC AATTAGAAGC GCTAATCTTA TCTGTGAAGC CTGCAATGCT AGTGATTGAG 1440

CATGATGCAC ATTTCATGAA GAAAATAACA GATAAAAAAA TTGTCTTGAA ATCATAA 1497

Figure 2A

MetSerLysIleGluLeuLysGlnLeuSerPheAlaTyrAspAsnGlnGluValLeuLeu 20

PheAspGlnAlaAsnIleThrMetAspThrAsnTrpLysLeuGlyLeuIleGlyArgAsn 40

GlyArgGlyLysThrThrLeuLeuArgLeuLeuGlnLysGlnLeuAspTyrGlnGlyGlu 60

IleLeuHisGlnValAspPheValTyrPheProGlnThrValAlaGluGluGlnGlnLeu 80

ThrTyrTyrValLeuGlnGluValThrSerPheGluGlnTrpGluLeuGluArgGluLeu 100

ThrLeuLeuAsnValAspProGluValLeuTrpArgProPheSerSerLeuSerGlyGly 120

GluLysThrLysValLeuLeuGlyLeuLeuPheIleGluGluAsnAlaPheProLeuIle 140

AspGluProThrAsnHisLeuAspLeuAlaGlyArgGlnGlnValAlaGluTyrLeuLys 160

LysLysLysHisGlyPheIleLeuValSerHisAspArgAlaPheValAspGluValVal 180

AspHisIleLeuAlaIleGluLysSerGlnLeuThrLeuTyrGlnGlyAsnPheSerIle 200

TyrGluGluGlnLysLysLeuArgAspAlaPheGluLeuAlaGluAsnGluLysIleLys 220

LysGluValAsnArgLeuLysGluThrAlaArgLysLysAlaGluTrpSerMetAsnArg 240

GluGlyAspLysTyrGlyAsnAlaLysGluLysGlySerGlyAlaIlePheAspThrGly 260

AlaIleGlyAlaArgAlaAlaArgValMetLysArgSerLysHisIleGlnGlnArgAla 280

GluThrGlnLeuAlaGluLysGluLysLeuLeuLysAspLeuGluTyrIleAspProLeu 300

SerMetAspTyrGlnProThrHisHisLysThrLeuLeuThrValGluGluLeuArgLeu 320

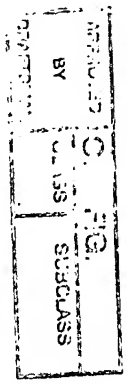

Figure 2B

GlyTyrGluLysAsnTrpLeuPheAlaProLeuSerPheSerIleAsnAlaGlyGluIle 340

ValGlyIleThrGlyLysAsnGlySerGlyLysSerSerLeuIleGlnTyrLeuLeuAsp 360

AsnPheSerGlyAspSerGluGlyGluAlaThrLeuAlaHisGlnLeuThrIleSerTyr 380

ValArgGlnAspTyrGluAspAsnGlnGlyThrLeuSerGluPheAlaGluLysAsnGln 400

LeuAspTyrThrGlnPheLeuAsnAsnLeuArgLysLeuGlyMetGluArgAlaValPhe 420

ThrAsnArgIleGluGlnMetSerMetGlyGlnArgLysLysValGluValAlaLysSer 440

LeuSerGlnSerAlaGluLeuTyrIleTrpAspGluProLeuAsnTyrLeuAspValPhe 460

AsnHisGlnGlnLeuGluAlaLeuIleLeuSerValLysProAlaMetLeuValIleGlu 480

HisAspAlaHisPheMetLysLysIleThrAspLysLysIleValLeuLysSer 498

Figure 3A

ATGAAAGAGA	TCGTAACATT	AACAAACGTT	AGCTATGAAG	TAAAGGATCA	AACTGTTTTT	60
AAACATGTAA	ACGCCAGTGT	TCAGCAAGGA	GATATCATTG	GGATTATCGG	CAAAAACGGC	120
GCTGGGAAAT	CTACGTTGCT	GCACCTCATT	CACAATGACT	TAGCCCCTGC	ACAGGGTCAA	180
ATCCTTCGGA	AGGATATAAA	ACTGGCTTTG	GTTGAACAGG	AAACCGCGGC	GTATTCCTTT	240
GCGGATCAGA	CACCTGCCGA	AAAGAAGTTA	CTGGAGAAAT	GGCATGTGCC	TCTTCGTGAT	300
TTTCATCAGT	TAAGCGGCGG	TGAAAAACTG	AAAGCGCGGC	TGGCGAAAGG	ACTATCAGAG	360
GATGCAGATC	TGCTGCTGTT	AGATGAACCG	ACAAACCACC	TTGATGAAAA	AAGCTTGCAA	420
TTTCTCATCC	AACAGCTGAA	ACATTATAAC	GGCACTGTGA	TTCTCGTTTC	TCACGATCGA	480
TATTTTTTAG	ACGAAGCCGC	AACAAAAATA	TGGTCGCTTG	AGGATCAGAC	GCTGATTGAA	540
TTCAAAGGGA	ATTACTCCGG	GTATATGAAG	TTCCGGGAGA	AGAAAAGACT	CACCCAGCAG	600
CGTGAATATG	AAAAGCAGCA	AAAAATGGTT	GAACGGATTG	AAGCACAAAT	GAATGGGCTC	660
GCTTCTTGGT	CGGAAAAAGC	CCATGCTCAA	TCGACGAAAA	AGGAAGGGTT	TAAAGAATAT	720
CACCGGGTAA	AAGCGAAGCG	TACGGATGCC	CAGATAAAAT	CCAAGCAGAA	GCGGCTTGAA	780
AAAGAGCTTG	AAAAAGCAAA	GGCGGAACCC	GTTACCCCAG	AATATACAGT	CCGCTTTTCA	840
ATCGATACAA	CCCACAAAAC	AGGAAAACGT	TTTTTAGAAG	TTCAGAATGT	AACAAAAGCG	900
TTTGGAGAAA	GGACTCTCTT	TAAAAACGCA	AACTTTACAA	TTCAGCACGG	CGAAAAGGTT	960

Figure 3B

GCGATCATAG GCCCCAATGG CAGCGGAAAA ACGACATTAC TGAACATCAT TCTGGGACAG 1020

GAAACAGCAG AAGGAAGTGT ATGGGTGTCG CCGTCCGCAA ACATCGGCTA TTTAACGCAG 1080

GAGGTGTTTG ATTTGCCTTT AGAACAAACA CCGGAAGAGT TATTTGAGAA TGAAACATTC 1140

AAAGCAAGGG GGCACGTTCA AAATCTGATG AGGCACTTAG GTTTTACAGC CGCCCAATGG 1200

ACTGAACCGA TCAAGCATAT GAGTATGGGT GAGCGTGTAA AGATCAAGCT GATGGCATAT 1260

ATTCTGGAGG AAAAAGACGT GCTGATTTTA GATGAGCCGA CAAACCATCT CGACCTGCCG 1320

TCACGCGAAC AGCTGGAAGA AACACTGTCA CAATACAGCG GCACATTGCT GGCGGTTTCA 1380

CATGACCGAT ACTTTCTCGA AAAAACAACA AACAGTAAAC TCGTCATCTC AAACAACGGC 1440

ATCGAAAAGC AGTTAAACGA CGTTCCTTCA GAAAGAAATG AGCGGGAGGA GCTTCGGTTA 1500

AAGCTTGAGA CAGAAAGACA AGAAGTGCTG GGAAAGCTCA GTTTTATGAC GCCAAATGAT 1560

AAAGGGTATA AGGAGCTTGA TCAGGCTTTC AATGAGCTTA CGAAACGAAT AAAAGAGCTG 1620

GATCATCAAG ACAAAAAAGA CTGA 1644

Figure 4A

MetLysGluIleValThrLeuThrAsnValSerTyrGluValLysAspGlnThrValPhe 20

LysHisValAsnAlaSerValGlnGlnGlyAspIleIleGlyIleIleGlyLysAsnGly 40

AlaGlyLysSerThrLeuLeuHisLeuIleHisAsnAspLeuAlaProAlaGlnGlyGln 60

IleLeuArgLysAspIleLysLeuAlaLeuValGluGlnGluThrAlaAlaTyrSerPhe 80

AlaAspGlnThrProAlaGluLysLysLeuLeuGluLysTrpHisValProLeuArgAsp 100

PheHisGlnLeuSerGlyGlyGluLysLeuLysAlaArgLeuAlaLysGlyLeuSerGlu 120

AspAlaAspLeuLeuLeuLeuAspGluProThrAsnHisLeuAspGluLysSerLeuGln 140

PheLeuIleGlnGlnLeuLysHisTyrAsnGlyThrValIleLeuValSerHisAspArg 160

TyrPheLeuAspGluAlaAlaThrLysIleTrpSerLeuGluAspGlnThrLeuIleGlu 180

PheLysGlyAsnTyrSerGlyTyrMetLysPheArgGluLysLysArgLeuThrGlnGln 200

ArgGluTyrGluLysGlnGlnLysMetValGluArgIleGluAlaGlnMetAsnGlyLeu 220

AlaSerTrpSerGluLysAlaHisAlaGlnSerThrLysLysGluGlyPheLysGluTyr 240

HisArgValLysAlaLysArgThrAspAlaGlnIleLysSerLysGlnLysArgLeuGlu 260

LysGluLeuGluLysAlaLysAlaGluProValThrProGluTyrThrValArgPheSer 280

IleAspThrThrHisLysThrGlyLysArgPheLeuGluValGlnAsnValThrLysAla 300

PheGlyGluArgThrLeuPheLysAsnAlaAsnPheThrIleGlnHisGlyGluLysVal 320

Figure 4B

AlaIleIleGlyProAsnGlySerGlyLysThrThrLeuLeuAsnIleIleLeuGlyGln 340

GluThrAlaGluGlySerValTrpValSerProSerAlaAsnIleGlyTyrLeuThrGln 360

GluValPheAspLeuProLeuGluGlnThrProGluGluLeuPheGluAsnGluThrPhe 380

LysAlaArgGlyHisValGlnAsnLeuMetArgHisLeuGlyPheThrAlaAlaGlnTrp 400

ThrGluProIleLysHisMetSerMetGlyGluArgValLysIleLysLeuMetAlaTyr 420

IleLeuGluGluLysAspValLeuIleLeuAspGluProThrAsnHisLeuAspLeuPro 440

SerArgGluGlnLeuGluGluThrLeuSerGlnTyrSerGlyThrLeuLeuAlaValSer 460

HisAspArgTyrPheLeuGluLysThrThrAsnSerLysLeuValIleSerAsnAsnGly 480

IleGluLysGlnLeuAsnAspValProSerGluArgAsnGluArgGluGluLeuArgLeu 500

LysLeuGluThrGluArgGlnGluValLeuGlyLysLeuSerPheMetThrProAsnAsp 520

LysGlyTyrLysGluLeuAspGlnAlaPheAsnGluLeuThrLysArgIleLysGluLeu 540

AspHisGlnAspLysLysAsp 547